

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

IN THE CLAIMS:

1. (Currently amended)A method in a data processing system for tracking relationships between programs and data, the method comprising:
 - receiving a file access request from a program, wherein the file access request is for a file and is received at an operating system level;
 - identifying an association between the file and the program requesting the file access in response to receiving the file access request; and
 - storing the [[an]] association between the file and the program, wherein the association is used for subsequent accesses to the file such that a stored association is stored for each file for which file access is requested by the program.
2. (Original)The method of claim 1, wherein the association is stored as meta data.
3. (Original)The method of claim 1, wherein the association includes a file name for the file and a program name for the program.
4. (Original)The method of claim 3, wherein the association further includes at least one of a location of the file, a time of file access, a date of file access, an extension for the file, and an identification of a user of the program.
5. (Original)The method of claim 4, wherein the location of the file is in a remote data processing system.
6. (Original)The method of claim 1, wherein the file request is one of a request to open the file, close the file, copy the file, or delete the file.
7. (Original)The method of claim 1, wherein the program is a first program and wherein a request to open the file originates from the first program and a request to close the file originates from a second program.

8. (Original)The method of claim 7, wherein the association includes the second program.
9. (Currently amended)The method of claim 1, wherein the receiving step, the identifying step, and the storing step are performed within an operating system kernel.
10. (Currently amended)The method of claim 1, wherein the receiving step, the identifying step, and the storing step are performed within a device driver.
11. (Original)The method of claim 10, wherein the drive driver intercepts calls directed to a mechanism used as a point of entry for the access.
12. (Original)The method of claim 1, wherein the storing step comprises:
storing the association between the file and the program in a database.
13. (Original)The method of claim 1, wherein associations are stored in a database and further comprising:
receiving a request from a requestor to access the associations;
querying the database for the associations;
receiving a result from the database; and
returning the result returned from the database to the requestor.
14. (Original)The method of claim 13, wherein the associations are for a particular program.
15. (Original)The method of claim 13, wherein the associations are for a particular file.
16. (Original)The method of claim 1, wherein the storing step comprises:
storing the association between the file and the program in at least one of a registry, file, and a file system.

17. (Currently amended)A data processing system comprising:
a bus system;
a communications unit connected to the bus system;
a memory connected to the bus system, wherein the memory includes as set of instructions; and
a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to receive a file access request from a program, wherein the file access request is for a file and is received at an operating system level; identify an association between the file and the program requesting the file access in response to receiving the file access request; and store the [[an]] association between the file and the program, wherein the association is used for subsequent accesses to the file such that a stored association is stored for each file for which file access is requested by the program.
18. (Original)The data processing system of claim 17, wherein the bus system is a single bus.
19. (Original)The data processing system of claim 17, wherein the bus system includes a primary bus and a secondary bus.
20. (Original)The data processing system of claim 17, wherein the processing unit includes a plurality of processors.
21. (Original)The data processing system of claim 17, wherein the communications unit is one of a modem and Ethernet adapter.
22. (Currently amended)A data processing system for tracking relationships between programs and data, the data processing system comprising:
receiving means for receiving a file access request from a program, wherein the file access request is for a file and is received at an operating system level;

identifying means for identifying an association between the file and the program requesting the file access in response to receiving the file access request; and

storing means for storing the ~~[[an]]~~ association between the file and the program, wherein the association is used for subsequent accesses to the file such that a stored association is stored for each file for which file access is requested by the program.

23. (Original)The data processing system of claim 22, wherein the association is stored as meta data.

24. (Original)The data processing system of claim 22, wherein the association includes a file name for the file and a program name for the program.

25. (Original)The data processing system of claim 24, wherein the association further includes at least one of a location of the file, a time of file access, a date of file access, an extension for the file, and an identification of a user of the program.

26. (Original)The data processing system of claim 25, wherein the location of the file is in a remote data processing system.

27. (Original)The data processing system of claim 22, wherein the file request is one of a request to open the file, close the file, copy the file, or delete the file.

28. (Original)The data processing system of claim 22, wherein the program is a first program and wherein a request to open the file originates from the first program and a request to close the file originates from a second program.

29. (Original)The data processing system of claim 22, wherein the association includes the second program.

30. (Currently amended)The data processing system of claim 22, wherein the receiving means, the identifying means, and the storing means are located performed within an operating system kernel.

31. (Currently amended)The data processing system of claim 22, wherein the receiving means, the identifying means, and the storing means are located performed within a device driver.

32. (Original)The data processing system of claim 31, wherein the drive driver intercepts calls directed to a mechanism used as a point of entry for the access.

33. (Original)The data processing system of claim 22, wherein the storing means comprises:

means for storing the association between the file and the program in a database.

34. (Original)The data processing system of claim 22, wherein associations are stored in a database, wherein the receiving means is a first receiving means, and further comprising:

second receiving means for receiving a request from a requestor to access the associations;

querying means for querying the database for the associations;

third receiving means for receiving a result from the database; and

returning means for returning the result returned from the database to the requestor.

35. (Original)The data processing system of claim 34, wherein the associations are for a particular program.

36. (Original)The data processing system of claim 34, wherein the associations are for a particular file.

37. (Original)The data processing system of claim 22, wherein the storing means comprises:

means for storing the association between the file and the program in at least one of a registry, file, and a file system.

38. (Currently amended)A computer program product in a computer readable medium for tracking relationships between programs and data, the computer program product comprising:

first instructions for receiving a file access request from a program, wherein the file access request is for a file and is received at an operating system level;

second instructions for identifying an association between the file and the program requesting the file access in response to receiving the file access request; and

third ~~second~~ instructions for storing the [[an]] association between the file and the program, wherein the association is used for subsequent accesses to the file such that a stored association is stored for each file for which file access is requested by the program.

39. (Original)The computer program product of claim 38, wherein the association is stored as meta data.

40. (Original)The computer program product of claim 38, wherein the association includes a file name for the file and a program name for the program.

41. (Original)The computer program product of claim 40, wherein the association further includes at least one of a location of the file, a time of file access, a date of file access, an extension for the file, and an identification of a user of the program.

42. (Original)The computer program product of claim 41, wherein the location of the file is in a remote data processing system.

43. (Original)The computer program product of claim 38, wherein the file request is one of a request to open the file, close the file, copy the file, or delete the file.

44. (Original)The computer program product of claim 38, wherein the program is a first program and wherein a request to open the file originates from the first program and a request to close the file originates from a second program.

45. (Original)The computer program product of claim 38, wherein the association includes the second program.

46. (Currently amended)The computer program product of claim 38, wherein the first instructions, the second instructions, and the third ~~second~~ instructions are located ~~performed~~ within an operating system kernel.

47. (Currently amended)The computer program product of claim 38, wherein the first instructions, the second instructions, and the third ~~second~~ instructions are located ~~performed~~ within a device driver.

48. (Original)The computer program product of claim 47, wherein the drive driver intercepts calls directed to a mechanism used as a point of entry for the access.

49. (Currently amended)The computer program product of claim 38, wherein the third ~~second~~ instructions comprises:

sub-instructions for storing the association between the file and the program in a database.

50. (Currently amended)The computer program product of claim 38, wherein associations are stored in a database and further comprising:

fourth ~~third~~ instructions for receiving a request from a requestor to access the associations;

fifth ~~fourth~~ instructions for querying the database for the associations;

sixth ~~fifth~~ instructions for receiving a result from the database; and

seventh ~~sixth~~ instructions for returning the result returned from the database to the requestor.

51. (Original)The computer program product of claim 50, wherein the associations are for a particular program.

52. (Original)The computer program product of claim 50, wherein the associations are for a particular file.

53. (Currently amended)The computer program product of claim 38, wherein the third ~~second~~ instructions comprises:

sub-instructions for storing the association between the file and the program in at least one of a registry, file, and a file system.